

second oxide for its positive electrode material, said first oxide being a spinel oxide consisting substantially of lithium, manganese, a metal other than manganese, and oxygen, and said second oxide being represented by the compositional formula $\text{Li}_a\text{M2}_b\text{Ni}_c\text{Co}_d\text{O}_2$ (where M2 is at least one element selected from the group consisting of Al, Mn, Mg and Ti, $0 < a < 1.3$, $0.02 \leq b \leq 0.3$, $0.02 \leq d/(c + d) \leq 0.9$ and $b + c + d = 1$).

26. (new) The nonaqueous electrolyte secondary battery as recited in claim 25, characterized in that said first oxide is an oxide derived via substitution of other element for a part of manganese in a lithium-manganese complex oxide.

27. (new) The nonaqueous electrolyte secondary battery as recited in claim 25, characterized in that said first oxide is a lithium-manganese complex oxide represented by the compositional formula $\text{Li}_x\text{Mn}_{2-y}\text{M1}_y\text{O}_{4+z}$ (where M1 is at least one element selected from the group consisting of Al, Co, Ni, Mg and Fe, $0 \leq x \leq 1.2$, $0 < y \leq 0.1$ and $-0.2 \leq z \leq 0.2$).

28. (new) The nonaqueous electrolyte secondary battery as recited in claim 27, characterized in that M1 in the first oxide's compositional formula $\text{Li}_x\text{Mn}_{2-y}\text{M1}_y\text{O}_{4+z}$ is at least one of Al and Mg.

1 29. (new) The nonaqueous electrolyte secondary battery as
2 recited in claim 25, characterized in that M2 in the second
3 oxide's compositional formula $\text{Li}_a\text{M2}_b\text{Ni}_c\text{Co}_d\text{O}_2$ is Mn.

1 30. (new) The nonaqueous electrolyte secondary battery as
2 recited in claim 29, characterized in that $0.1 \leq d/(c + d)$
3 ≤ 0.5 is satisfied in the second oxide's compositional
4 formula $\text{Li}_a\text{M2}_b\text{Ni}_c\text{Co}_d\text{O}_2$.

1 31. (new) The nonaqueous electrolyte secondary battery as
2 recited in claim 25, characterized in that said first and
3 second oxides are mixed in the ratio by weight of 20:80 -
4 80:20.

1 32. (new) The nonaqueous electrolyte secondary battery as
2 recited in claim 25, characterized in that said first oxide
3 has a mean particle diameter of 5 - 30 μm .

1 33. (new) The nonaqueous electrolyte secondary battery as
2 recited in claim 25, characterized in that said second
3 oxide has a mean particle diameter of 3 - 15 μm .

1 34. (new) A nonaqueous electrolyte secondary battery
2 characterized as using a mixture of a first oxide, a second
3 oxide and a third oxide for its positive electrode
4 material, said first oxide being a spinel oxide consisting
5 substantially of lithium, manganese, a metal other than
6 manganese, and oxygen, said second oxide being different

7 from the first oxide and consisting substantially of
8 lithium, nickel, cobalt, a metal other than nickel and
9 cobalt, and oxygen, and said third oxide being different
10 from the first and second oxides and consisting
11 substantially of lithium, cobalt and oxygen or of lithium,
12 cobalt, a metal other than cobalt, and oxygen.

1 **35.** (new) The nonaqueous electrolyte secondary battery as
2 recited in claim 34, characterized in that said first oxide
3 is an oxide derived via substitution of other element for
4 a part of manganese in a lithium-manganese complex oxide,
5 said second oxide is an oxide derived via substitution of
6 cobalt and other element for a part of nickel in a
7 lithium-nickel complex oxide, and said third oxide is a
8 lithium-cobalt complex oxide or an oxide derived via
9 substitution of other element for a part of cobalt in said
10 lithium-cobalt complex oxide.

1 **36.** (new) The nonaqueous electrolyte secondary battery as
2 recited in claim 34, characterized in that said first oxide
3 is a lithium-manganese complex oxide represented by the
4 compositional formula $\text{Li}_x\text{Mn}_{2-y}\text{Ml}_y\text{O}_{4+z}$ (where Ml is at least one
5 element selected from the group consisting of Al, Co, Ni,
6 Mg and Fe, $0 \leq x \leq 1.2$, $0 < y \leq 0.1$ and $-0.2 \leq z \leq 0.2$).

1 **37.** (new) The nonaqueous electrolyte secondary battery as
2 recited in claim 34, characterized in that said second
3 oxide is represented by the compositional formula

Li_aM_{2b}Ni_cCo_dO₂ (where M₂ is at least one element selected from the group consisting of Al, Mn, Mg and Ti, 0 < a < 1.3, 0.02 ≤ b ≤ 0.3, 0.02 ≤ d/(c + d) ≤ 0.9 and b + c + d = 1).

38. (new) The nonaqueous electrolyte secondary battery as recited in claim 34, characterized in that said third oxide is represented by the compositional formula Li_eM_{3f}Co_{1-f}O₂ (where M₃ is at least one element selected from the group consisting of Al, Mn, Mg and Ti, 0 < e < 1.3 and 0 ≤ f ≤ 0.4).

39. (new) The nonaqueous electrolyte secondary battery as recited in claim 36, characterized in that M₁ in the first oxide's compositional formula Li_xMn_{2-y}M_{1y}O_{4+z} is at least one of Al and Mg.

40. (new) The nonaqueous electrolyte secondary battery as recited in claim 37, characterized in that M₂ in the second oxide's compositional formula Li_aM_{2b}Ni_cCo_dO₂ is Mn.

41. (new) The nonaqueous electrolyte secondary battery as recited in claim 40, characterized in that 0.1 ≤ d/(c + d) ≤ 0.5 is satisfied in the second oxide's compositional formula Li_aM_{2b}Ni_cCo_dO₂.

42. (new) The nonaqueous electrolyte secondary battery as recited in claim 38, characterized in that said third oxide

is represented by the compositional formula $\text{Li}_e\text{M}_{3f}\text{Co}_{1-f}\text{O}_2$
(where M3 is at least one element selected from the group
consisting of Mg and Ti, $0 < e < 1.3$ and $0.02 \leq f \leq 0.2$).

43. (new) The nonaqueous electrolyte secondary battery as
recited in claim 34, characterized in that said first,
second and third oxides are mixed in the ratio by weight of
(first oxide) to (second oxide + third oxide) = 20:80 -
80:20.

44. (new) The nonaqueous electrolyte secondary battery as
recited in claim 43, characterized in that said second and
third oxides are mixed in the ratio by weight of (second
oxide) to (third oxide) = 90:10 - 10:90.

45. (new) The nonaqueous electrolyte secondary battery as
recited in claim 34, characterized in that said first oxide
has a mean particle diameter of 5 - 30 μm .

46. (new) The nonaqueous electrolyte secondary battery as
recited in claim 34, characterized in that said second
oxide has a mean particle diameter of 3 - 15 μm .

47. (new) The nonaqueous electrolyte secondary battery as
recited in claim 34, characterized in that said third oxide
has a mean particle diameter of 3 - 15 μm .